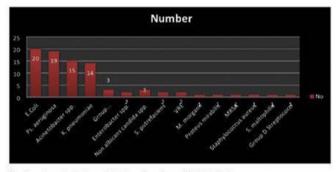


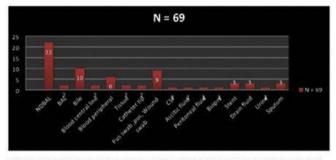
Since January 2020 Elsevier has created a COVID-19 resource centre with free information in English and Mandarin on the novel coronavirus COVID-19. The COVID-19 resource centre is hosted on Elsevier Connect, the company's public news and information website.

Elsevier hereby grants permission to make all its COVID-19-related research that is available on the COVID-19 resource centre - including this research content - immediately available in PubMed Central and other publicly funded repositories, such as the WHO COVID database with rights for unrestricted research re-use and analyses in any form or by any means with acknowledgement of the original source. These permissions are granted for free by Elsevier for as long as the COVID-19 resource centre remains active. with COVID-19 for ${\geq}48$ hours between April 2020 to July 2020 were included in the study.

Results: A total of 9595 cancer patients were tested for SARS Coronavirus 2 between April 2020 to July 2020 in the department of Microbiology, Tata Memorial Hospital, Mumbai. Out of these 2380 (24.80%) were COVID-19 positive. 30 (1.26%) of the patients tested positive for COVID 19 required ICU admission. Squamous cell carcinona (3), Pancreatic Cancer (3) and Breast Cancer (3) were most com- monly involved cancer types. 20/30 of these patients had bacterial super infections while 10/30 had co infections. NDBAL 22 (31.88%) constituted the major source of infection, followed by BLE 10 (14.49%), PUS, PUS SWAB & WOUND SWAB 9 (13.04%). Most common- ly isolated organisms was E. coli 20 (23.25%), followed by Pseudomonas aeruginosa 19 (22.09%), Acinetobacter spp. 15 (17.44%) and Klebseilla pneumoniae 14(16.27%) respec- tively. E. coli & K. pneumoniae were most commonly sensitive to Amikacin (63.63%) and Tige-cycline (57.57%). Ps. aeruginosa was moderately sensitive to commonly used antibi- otics like Piperacillin – tazobactum, Ceftazidime, Cefoperazone sulbactam (42.85%) and Ciprofloxacin, Tobramycin (38.09%)



Number of samples for bacterial cultures in patients with COVID-19



Detailed epidemiology of microbiological documented Organisms isolated in patients hospitalized with COVID-19

Conclusions:Understanding the proportion of COVID-19 patients with acute respiratory bacterial co-infection, and the culprit pathogens, is crucial for treating patients with COVID-19 and to help ensure responsible use of antibiotics and to minimize negative consequenc- es of overuse.

https://doi.org/10.1016/j.ijmmb.2021.08.228

EVALUATION OF MULTIPLE RTPCR KITS FOR DETECTION OF SARS COV-2 RNA

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Background:Past one year has set in an unprecedented and rather disturbing situation in the entire world especially for the medical community as the COVID-19 pandemic engulfed the world. In all this chaos, the first and foremost step in curbing the spread of infection is detection of infection by with the best sensitivity RT -PCR kit. This led to mass production of plethora of kits for real time PCR. This on one hand helps and empowers but at the same time can cause confusion in results and reporting. This study compares most commonly available RT-PCR kits in hope to form some sort of standardisation and develop a clarity about

their sensitivities and make decision accordingly.

Methods:A total of 104 samples (42 positive and & 62 negative) processed by GeneXpert[™] for detection of SARS -CoV- were included in the study. These were analysed using 8commonly available SARS-CoV-2 diagnostic RT-PCR kits in India. Cartridge based NAT was used as it minimizes the observer variation. The CT values were compared with respect to different kits. Sensitivity, Specificity, PPV and NPV were calculated for each kit. Agreement of different kits was evaluat- ed using Kappa analysis.

Results: Variable positivity rates were recorded by different kits. Maximum agreement was seen with SD -Biosensor. Positivity of these samples by various kits ranged from 38.4% to 9.6%.

Conclusions: Use of different kits can lead to variable results causing change in reporting. As the targets for each kit and reporting threshold is different, it becomes important to adhere to kit instructions and mention kit in reports.

https://doi.org/10.1016/j.ijmmb.2021.08.226

ROLE OF CURRENCY NOTES IN THE TRANSMISSION OF SARS-COV-2 INFECTION.

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Background:Droplet transmission is the main mode of transmission for SARS-CoV-2. Contact transmission through fom- ites is another important mode of transmission. Amongst fomites, currency notes carry a high risk of SARS-CoV-2 trans- mission because of frequent handling. They also provide ample surface area to harbor micro -organisms. As there is lim- ited data currently available on this subject, the study was planned to determine the presence of SARS -COV-2 on com- monly circulating currency notes by detecting viral RNA using real time PCR.

Methods:A total of 71 creased and visibly well circulated notes of monetary value Rs. 10, 100 and 500 were included in the study, collected through normal monetary transaction from the busy shops in designated areas in Delhi (inside and outside containment zones). Two nylon flocked swabs moistened with viral transport medium were rubbed on the ob- verse and reverse sides of the notes and then kept in screw capped tubes containing 1 ml of VTM till further processing at 2-8. RNA extracted was tested for the presence of SARS-CoV-2 by real time PCR as per NIV protocol.

Results:Among the 71 currency notes tested for the presence of SARS-CoV-2 RNA by RT-PCR, three samples tested posi- tive for SARS-CoV-2 RNA (4.2%). All the three positive samples were collected from containment zones.

Conclusions:Currency notes may be a potential mode of human-to-human transmission. Considering the widespread magnitude of the pandemic and the remarkable stability of the virus on smooth surfaces, caution is warranted while handling currency notes. Hence, contactless transactions/ digital transactions should be recommended as the best op- tions in the ongoing pandemic

https://doi.org/10.1016/j.ijmmb.2021.08.227

Abstracts-COVID 19

PREVALENCE OF COVID-19 AMONG SYMPTOMATIC AND ASYMPTOMATIC CASES IN PAEDIATRIC POPULATION AT HYDERABAD

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Background:COVID-19 caused by SARS CoV 2 has emerged into a global pandemic. Paediatric COVID-19 infection is rela- tively mild when compared to adults, and children are reported to have a better prognosis. Mortality in children appears rare. Many infected children are often asymptomatic and remain undiagnosed without population screening. Due to these reasons children can be potential source of infection and may lead to higher transmission. Therefore knowledge on prevalence of asymptomatic and symptomatic cases among children is essential for effective control of COVID

Methods:Nasopharyngeal Samples received at VRDL which were collected from children from 1st June to 30th Novem- ber of 2020 were subjected to RT-PCR for detection of SARS CoV-2 RNA and the Positive cases were correlated with the